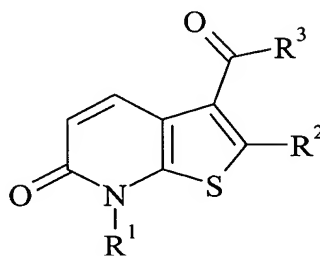


This listing of claims will replace all prior versions, and listings, of claims in the application.

### Listing of Claims:

1. (currently amended) A compound of formula (I), or a pharmaceutically acceptable salt or solvate thereof:



(I)

wherein

$R^1$  represents an optionally substituted ( $C_{3-7}$  cycloalkyl)methyl, aryl or heteroaryl, ~~any of which groups may be optionally substituted by one or more substituents group;~~

$R^2$  represents hydrogen, nitro, cyano,  $-CO_2R^a$ ,  $-CONR^bR^c$ ,  $-NR^bR^c$ ,  $-NR^dCOR^a$ ,  $-NR^dCO_2R^a$ ,  $-NR^dCONR^bR^c$ ,  $-NR^dSO_2R^a$  or  $-NR^dCONHNHSO_2R^a$ ;

$R^3$  represents an optionally substituted aryl or heteroaryl group;

$R^a$  represents hydrogen;  $C_{1-6}$  alkyl {optionally substituted by amino,  $C_{1-6}$  alkylamino or di( $C_{1-6}$ )alkylamino}; or  $C_{3-7}$  heterocycloalkyl {optionally substituted by  $C_{1-6}$  alkyl};

$R^b$  represents hydrogen;  $C_{1-6}$  alkyl {optionally substituted by hydroxy, amino,  $C_{1-6}$  alkylamino, di( $C_{1-6}$ )alkylamino or  $C_{3-7}$  heterocycloalkyl};  $C_{2-6}$  alkenyl;  $C_{3-7}$  cycloalkyl {optionally substituted by amino,  $C_{1-6}$  alkylamino or di( $C_{1-6}$ )alkylamino}; or  $C_{3-7}$  heterocycloalkyl {optionally substituted by  $C_{1-6}$  alkyl}; and

$R^c$  represents hydrogen or  $C_{1-6}$  alkyl; or

$R^b$  and  $R^c$ , when taken together with the nitrogen atom to which they are attached, represent azetidin-1-yl {optionally substituted by hydroxy, amino,  $C_{1-6}$  alkylamino or di( $C_{1-6}$ )alkylamino}; pyrrolidin-1-yl {optionally substituted by hydroxy, hydroxymethyl, amino,  $C_{1-6}$  alkylamino or di( $C_{1-6}$ )alkylamino}; piperidin-1-yl {optionally substituted by hydroxy,

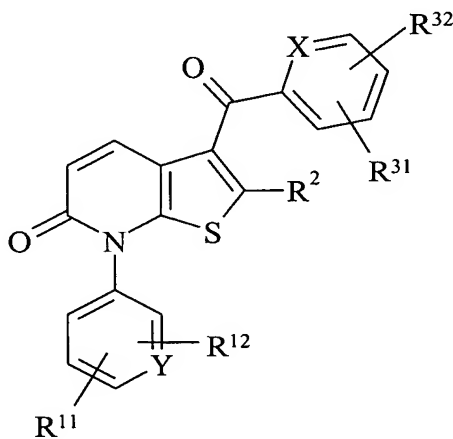
amino, C<sub>1-6</sub> alkylamino or di(C<sub>1-6</sub>)alkylamino]; piperazin-1-yl (optionally substituted by C<sub>1-6</sub> alkyl)<sub>2</sub> or morpholin-4-yl; and

R<sup>d</sup> represents hydrogen or C<sub>1-6</sub> alkyl.

2. (original) A compound as claimed in claim 1 wherein R<sup>1</sup> represents cyclopropylmethyl, phenyl, fluorophenyl, chlorophenyl, difluorophenyl, methylphenyl, pyridinyl or dimethylamino-pyridinyl.

3. (currently amended) A compound as claimed in claim 1 ~~or claim 2~~ wherein R<sup>3</sup> represents phenyl, fluorophenyl, difluorophenyl, chlorophenyl, (chloro)(fluoro)phenyl, bromophenyl, cyanophenyl, methylphenyl, (fluoro)(methyl)phenyl, dimethylphenyl, trifluoromethyl-phenyl, methoxyphenyl, (ethoxy)(methyl)phenyl, difluoromethoxy-phenyl, trifluoromethoxy-phenyl, pyridinyl, methylpyridinyl, thienyl or thiazolyl.

4. (currently amended) A compound as claimed in claim 1 represented by formula (IIA), ~~and or a pharmaceutically acceptable salts and solvates~~ salt or solvate thereof:



(IIA)

wherein

X represents CH or N;

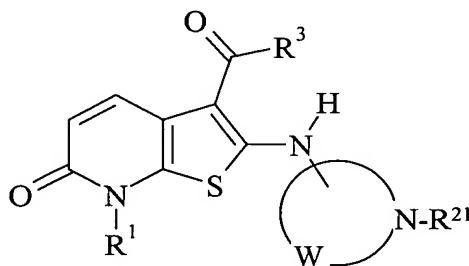
Y represents CH or N; and

$R^{11}$ ,  $R^{12}$ ,  $R^{31}$  and  $R^{32}$  each independently represent hydrogen, halogen, cyano, nitro,  $C_{1-6}$  alkyl, trifluoromethyl, hydroxy,  $C_{1-6}$  alkoxy, difluoromethoxy, trifluoromethoxy,  $C_{1-6}$  alkylsulphonyl, amino,  $C_{1-6}$  alkylamino, di( $C_{1-6}$ )alkylamino, aminocarbonyl or  $C_{2-6}$  alkoxy carbonyl; ~~and~~

~~$R^2$  is as defined in claim 1.~~

5. (currently amended) A compound as claimed in ~~any one of the preceding claims~~ claim 1 wherein  $R^2$  represents  $-NR^bR^c$  ~~in which  $R^b$  and  $R^c$  are as defined in claim 1.~~

6. (currently amended) A compound as claimed in claim 1 represented by formula (IIB); ~~and or a pharmaceutically acceptable salts and solvates~~ salt or solvate thereof:



(IIB)

wherein

W represents the residue of an azetidine, pyrrolidine or piperidine ring; and

$R^{21}$  represents hydrogen or  $C_{1-6}$  alkyl; ~~and~~

~~$R^1$  and  $R^3$  are as defined in claim 1.~~

7. (original) A compound as claimed in claim 6 wherein  $R^{21}$  represents methyl.

8. (currently amended) A compound as claimed in claim 1 ~~as herein specifically disclosed in any one of the Examples that is:~~

Ethyl 3-(3-methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridine-2-carboxylate;

3-(3-Methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridine-2-carboxylic acid;  
*tert*-Butyl [3-(3-methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-  
yl]carbamate;

2-Amino-3-(3-methylbenzoyl)-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

3-(3-Methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridine-2-carbonitrile;

3-(3-Methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridine-2-carboxamide;

2-(Azetidin-1-ylcarbonyl)-3-(3-methylbenzoyl)-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

3-(3-Methylbenzoyl)-7-phenyl-2-(piperidin-1-yl)thieno[2,3-*b*]pyridin-6(7*H*)-one;

3-(3-Methylbenzoyl)-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

Ethyl 3-benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridine-2-carboxylate;

3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridine-2-carboxylic acid;

*tert*-Butyl (3-benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)carbamate;

2-Amino-3-benzoyl-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

*N*-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)acetamide;

*N*-[3-(3-Methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]acetamide;

*N*-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)methanesulfonamide;

*N*-[3-(3-Methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-  
yl]methanesulfonamide;

2-(Azetidin-1-yl)-3-(3-methylbenzoyl)-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

*N*-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)piperidine-4-  
carboxamide;

*N'*-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)-*N,N*-dimethylurea;

*N*-(2-Hydroxy-2-methylpropyl)-*N'*-[3-(3-methylbenzoyl)-6-oxo-7-phenyl-6,7-  
dihydrothieno[2,3-*b*]pyridin-2-yl]urea;

4-Methyl-*N*-[3-(3-methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-  
yl]piperazine-1-carboxamide;

*N*-[3-(3-Methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]urea;

*N,N*-Dimethyl-*N'*-[3-(3-methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-  
yl]urea;

*N*-[3-(3-Methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]azetidine-1-  
carboxamide;

N-Allyl-N'-[3-(3-methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridin-2-yl]urea;

(2R)-2-(Hydroxymethyl)-N-[3-(3-methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridin-2-yl]pyrrolidine-1-carboxamide;

N-(1-Ethylpyrrolidin-3-yl)-N'-[3-(3-methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridin-2-yl]urea;

N-[3-(3-Methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridin-2-yl]-2-(methylsulfonyl)hydrazinecarboxamide;

3-Benzoyl-N-methyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

2-(Azetidin-1-ylcarbonyl)-3-benzoyl-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

3-Benzoyl-N-(1,1-dimethyl-2-hydroxyethyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-Benzoyl-N,N-dimethyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-Benzoyl-2-[(2S)-2-(hydroxymethyl)pyrrolidin-1-yl]carbonyl-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

3-Benzoyl-2-(morpholin-4-ylcarbonyl)-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

3-Benzoyl-7-phenyl-2-(pyrrolidin-1-ylcarbonyl)thieno[2,3-b]pyridin-6(7H)-one;

3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;

3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

Ethyl 3-benzoyl-7-(cyclopropylmethyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

2-Amino-3-benzoyl-7-(cyclopropylmethyl)thieno[2,3-b]pyridin-6(7H)-one;

3-Benzoyl-7-(2-chlorophenyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridine-2-carbonitrile;

2-Amino-3-benzoyl-7-(2-chlorophenyl)thieno[2,3-b]pyridin-6(7H)-one;

3-(3-Chlorobenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

Ethyl 3-(3-chlorobenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxylate;

2-Amino-3-(3-chlorobenzoyl)-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

N-[3-(3-Chlorobenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridin-2-yl]acetamide;

3-(2,4-Difluorobenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

3-(4-Fluoro-3-methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridine-2-carboxamide;

Ethyl 3-(4-fluoro-3-methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridine-2-carboxylate;

2-Amino-3-(4-fluoro-3-methylbenzoyl)-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

2-Amino-3-(4-ethoxy-3-methylbenzoyl)-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

3-(3-Chloro-4-fluorobenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridine-2-carboxamide;

2-Amino-3-[(6-methylpyridin-2-yl)carbonyl]-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

*N*-{3-[(6-Methylpyridin-2-yl)carbonyl]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl}acetamide;

3-Benzoyl-2-(dimethylamino)-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

3-Benzoyl-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

2-Amino-7-phenyl-3-[3-(trifluoromethyl)benzoyl]thieno[2,3-*b*]pyridin-6(7*H*)-one;

*N*-{6-Oxo-7-phenyl-3-[3-(trifluoromethyl)benzoyl]-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl}acetamide;

*N*-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)-1-methylpiperidine-4-carboxamide;

*N*-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)-1-ethylpiperidine-4-carboxamide;

*N*-{6-Oxo-7-phenyl-3-[3-(trifluoromethyl)benzoyl]-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl}piperidine-4-carboxamide;

*N*-[3-(3-Chlorobenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]piperidine-4-carboxamide;

3-Benzoyl-2-[(3*R*)-3-hydroxypyrrolidin-1-yl]-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

3-Benzoyl-7-phenyl-2-{[2-(piperidin-1-yl)ethyl]amino}thieno[2,3-*b*]pyridin-6(7*H*)-one;

3-Benzoyl-7-phenyl-2-{[2-(pyrrolidin-1-yl)ethyl]amino}thieno[2,3-*b*]pyridin-6(7*H*)-one;

3-Benzoyl-7-phenyl-2-(piperidin-3-ylamino)thieno[2,3-*b*]pyridin-6(7*H*)-one;

2-(Azetidin-3-ylamino)-3-benzoyl-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

3-Benzoyl-2-[(1-methylazetidin-3-yl)amino]-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

2-Amino-3-(3-methoxybenzoyl)-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

2-Amino-3-(2-chlorobenzoyl)-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

2-Amino-3-(3-chloro-4-fluorobenzoyl)-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

3-[(2-Amino-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-3-yl)carbonyl]benzonitrile;  
2-Amino-3-(2-fluorobenzoyl)-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;  
2-Amino-3-(4-chlorobenzoyl)-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;  
2-Amino-3-(4-fluorobenzoyl)-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;  
2-Amino-3-(3-bromobenzoyl)-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;  
2-Amino-3-(2,4-difluorobenzoyl)-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;  
2-Amino-7-phenyl-3-[3-(trifluoromethoxy)benzoyl]thieno[2,3-*b*]pyridin-6(7*H*)-one;  
2-Amino-3-(3,4-dimethylbenzoyl)-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;  
2-Amino-3-(2-methoxybenzoyl)-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;  
2-[(2-Amino-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-3-yl)carbonyl]benzonitrile;  
2-Amino-3-benzoyl-7-pyridin-3-ylthieno[2,3-*b*]pyridin-6(7*H*)-one;  
2-Amino-3-benzoyl-7-(4-methylphenyl)thieno[2,3-*b*]pyridin-6(7*H*)-one;  
*N*-[3-Benzoyl-7-(2-chlorophenyl)-6-oxo-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]acetamide;  
*N*-[3-(3-Chloro-4-fluorobenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]acetamide;  
*N*-[3-Benzoyl-7-(cyclopropylmethyl)-6-oxo-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]acetamide;  
*N*-[3-(2-Fluorobenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]acetamide;  
*N*-[3-(4-Fluoro-3-methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]acetamide;  
*N*-[3-(4-Fluorobenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]acetamide;  
*N*-[3-(3-Methoxybenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]acetamide;  
*N*-[3-(3-Bromobenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]acetamide;  
2-Amino-7-phenyl-3-[4-(trifluoromethyl)benzoyl]thieno[2,3-*b*]pyridin-6(7*H*)-one;  
4-[(2-Amino-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-3-yl)carbonyl]benzonitrile;  
2-Amino-3-(4-methoxybenzoyl)-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;  
2-Amino-7-phenyl-3-[4-(trifluoromethoxy)benzoyl]thieno[2,3-*b*]pyridin-6(7*H*)-one;  
2-Amino-3-(2-methylbenzoyl)-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;  
2-Amino-3-(4-methylbenzoyl)-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;  
2-Amino-7-phenyl-3-[2-(trifluoromethyl)benzoyl]thieno[2,3-*b*]pyridin-6(7*H*)-one;  
2-Amino-3-[3-(difluoromethoxy)benzoyl]-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;  
2-Amino-7-phenyl-3-(2-thienylcarbonyl)thieno[2,3-*b*]pyridin-6(7*H*)-one;

2-Amino-3-[4-(difluoromethoxy)benzoyl]-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;  
2-Amino-3-[2-(difluoromethoxy)benzoyl]-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;  
*N*-{6-Oxo-7-phenyl-3-[3-(trifluoromethoxy)benzoyl]-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl}acetamide;  
*N*-[3-(3,4-Dimethylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]acetamide;  
*N*-[3-(2-Methoxybenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]acetamide;  
*N*-[3-(2-Cyanobenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]acetamide;  
*N*-[3-(2-Chlorobenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]acetamide;  
*N*-[3-(2-Methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]acetamide;  
*N*-[3-(4-Methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]acetamide;  
*N*-[6-Oxo-7-phenyl-3-(2-thienylcarbonyl)-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]acetamide;  
*N*-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)-*N'*-(2-hydroxy-2-methylpropyl)urea;  
*N*-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)-*N'*-(2-hydroxy-1,1-dimethylethyl)urea;  
*N*-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)-4-methylpiperazine-1-carboxamide;  
(3*R*)-*N*-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)-3-hydroxypyrrolidine-1-carboxamide;  
2-Amino-7-(cyclopropylmethyl)-3-(4-fluoro-3-methylbenzoyl)thieno[2,3-*b*]pyridin-6(7*H*)-one;  
*N*-[7-(Cyclopropylmethyl)-3-(4-fluoro-3-methylbenzoyl)-6-oxo-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]acetamide;  
*N*-[7-(Cyclopropylmethyl)-3-(4-fluoro-3-methylbenzoyl)-6-oxo-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]-*N'*-(2-hydroxy-2-methylpropyl)urea;  
*N*-[7-(Cyclopropylmethyl)-3-(4-fluoro-3-methylbenzoyl)-6-oxo-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]-*N'*-(2-hydroxy-1,1-dimethylethyl)urea;  
7-(2-Chlorophenyl)-3-(4-fluoro-3-methylbenzoyl)-2-nitrothieno[2,3-*b*]pyridin-6(7*H*)-one;  
2-Amino-7-(2-chlorophenyl)-3-(4-fluoro-3-methylbenzoyl)thieno[2,3-*b*]pyridin-6(7*H*)-one;



N-[7-(2-Chlorophenyl)-3-(4-fluoro-3-methylbenzoyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridin-2-yl]acetamide;

N-[3-Benzoyl-7-(2-chlorophenyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridin-2-yl]piperidine-4-carboxamide hydrochloride;

N-[3-Benzoyl-7-(2-chlorophenyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridin-2-yl]-N'-(2-hydroxy-1,1-dimethylethyl)urea;

N-[3-Benzoyl-7-(2-chlorophenyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridin-2-yl]-N'-(2-hydroxy-2-methylpropyl)urea;

N-[3-(4-Fluoro-3-methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridin-2-yl]-N'-(2-hydroxy-2-methylpropyl)urea;

3-Benzoyl-2-nitro-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

2-Amino-7-phenyl-3-[2-(trifluoromethoxy)benzoyl]thieno[2,3-b]pyridin-6(7H)-one;

2-Amino-3-(3-fluorobenzoyl)-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

2-Amino-7-phenyl-3-(1,3-thiazol-2-ylcarbonyl)thieno[2,3-b]pyridin-6(7H)-one;

2-Amino-7-phenyl-3-(pyridin-2-ylcarbonyl)thieno[2,3-b]pyridin-6(7H)-one;

2-Amino-7-(2-chlorophenyl)-3-(3-methylbenzoyl)thieno[2,3-b]pyridin-6(7H)-one;

2-Amino-3-benzoyl-7-(2-fluorophenyl)thieno[2,3-b]pyridin-6(7H)-one;

2-Amino-3-(4-fluoro-3-methylbenzoyl)-7-(2-fluorophenyl)thieno[2,3-b]pyridin-6(7H)-one;

2-Amino-7-(2-fluorophenyl)-3-(3-methylbenzoyl)thieno[2,3-b]pyridin-6(7H)-one;

2-Amino-3-benzoyl-7-[6-(dimethylamino)pyridin-3-yl]thieno[2,3-b]pyridin-6(7H)-one hydrochloride;

N-{3-[3-(Difluoromethoxy)benzoyl]-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridin-2-yl}acetamide;

N-[3-(3-Fluorobenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-b]pyridin-2-yl]acetamide;

N-[7-(2-Chlorophenyl)-3-(3-methylbenzoyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridin-2-yl]acetamide;

N-[3-Benzoyl-7-(2-fluorophenyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridin-2-yl]acetamide;

N-[3-(4-Fluoro-3-methylbenzoyl)-7-(2-fluorophenyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridin-2-yl]acetamide;

N-[7-(2-Fluorophenyl)-3-(3-methylbenzoyl)-6-oxo-6,7-dihydrothieno[2,3-b]pyridin-2-yl]acetamide;

N-1-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)glycinamide;

N-1-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)-N-2-methylglycinamide;

N-1-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)-N-2,N-2-dimethylglycinamide;

N-1-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)-D-alaninamide hydrochloride;

N-1-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)-beta-alaninamide hydrochloride;

N-[3-Benzoyl-7-(cyclopropylmethyl)-6-oxo-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]piperidine-4-carboxamide hydrochloride;

N-[3-(4-Fluoro-3-methylbenzoyl)-7-(2-fluorophenyl)-6-oxo-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]piperidine-4-carboxamide hydrochloride;

N-[3-(4-Fluoro-3-methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]piperidine-4-carboxamide;

N-[3-Benzoyl-7-(2-chlorophenyl)-6-oxo-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]-1-methylpiperidine-4-carboxamide;

N-[3-(4-Fluoro-3-methylbenzoyl)-7-(2-fluorophenyl)-6-oxo-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]-1-methylpiperidine-4-carboxamide;

N-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)-D-prolinamide hydrochloride;

N-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)-L-prolinamide hydrochloride;

N-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)-1-methyl-L-prolinamide;

N-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)-1-methyl-D-prolinamide;

N-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)-N'-(2-hydroxyethyl)urea;

N-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)-N'-[(3*R*)-1-methylpyrrolidin-3-yl]urea;

(3R)-N-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)-3-

(dimethylamino)pyrrolidine-1-carboxamide;

(3S)-N-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)-3-

(dimethylamino)pyrrolidine-1-carboxamide;

N-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)-N'-[(3S)-pyrrolidin-3-

yl]urea hydrochloride;

(3R)-3-Amino-N-(3-benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-

yl)pyrrolidine-1-carboxamide hydrochloride;

(3S)-3-Amino-N-(3-benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-

yl)pyrrolidine-1-carboxamide hydrochloride;

N-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)-N'-[(3S)-1-

methylpyrrolidin-3-yl]urea;

(3S)-N-(3-Benzoyl-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl)-3-

(isopropylamino)pyrrolidine-1-carboxamide;

N-[3-(4-Fluoro-3-methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]-N'-

(1,1-dimethyl-2-hydroxyethyl)urea;

N-[3-(4-Fluoro-3-methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]-N'-

[(3R)-pyrrolidin-3-yl]urea hydrochloride;

N-[3-(4-Fluoro-3-methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]-N'-

[(3R)-1-methylpyrrolidin-3-yl]urea;

N-[(3R)-1-Ethylpyrrolidin-3-yl]-N'-[3-(4-fluoro-3-methylbenzoyl)-6-oxo-7-phenyl-6,7-

dihydrothieno[2,3-*b*]pyridin-2-yl]urea;

(3R)-3-(Dimethylamino)-N-[3-(4-fluoro-3-methylbenzoyl)-6-oxo-7-phenyl-6,7-

dihydrothieno[2,3-*b*]pyridin-2-yl]pyrrolidine-1-carboxamide;

(3S)-3-(Dimethylamino)-N-[3-(4-fluoro-3-methylbenzoyl)-6-oxo-7-phenyl-6,7-

dihydrothieno[2,3-*b*]pyridin-2-yl]pyrrolidine-1-carboxamide;

N-[3-(4-Fluoro-3-methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]-4-

methylpiperazine-1-carboxamide;

N-[7-(2-Chlorophenyl)-3-(4-fluoro-3-methylbenzoyl)-6-oxo-6,7-dihydrothieno[2,3-*b*]pyridin-

2-yl]-N'-(1,1-dimethyl-2-hydroxyethyl)urea;

N-[3-Benzoyl-7-(cyclopropylmethyl)-6-oxo-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]-N'-(1,1-dimethyl-2-hydroxyethyl)urea;

N-[3-Benzoyl-7-(cyclopropylmethyl)-6-oxo-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]-N'-(2-hydroxy-2-methylpropyl)urea;

3-Benzoyl-7-phenyl-2-(piperidin-4-ylamino)thieno[2,3-*b*]pyridin-6(7*H*)-one;

3-Benzoyl-2-[(1-methylpiperidin-4-yl)amino]-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

3-Benzoyl-7-phenyl-2-[(3*R*)-pyrrolidin-3-ylamino]thieno[2,3-*b*]pyridin-6(7*H*)-one;

3-Benzoyl-2-[(3*R*)-1-methylpyrrolidin-3-yl]amino}-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one hydrochloride;

3-Benzoyl-7-phenyl-2-[(3*S*)-pyrrolidin-3-ylamino]thieno[2,3-*b*]pyridin-6(7*H*)-one;

3-Benzoyl-2-[(3*S*)-1-methylpyrrolidin-3-yl]amino}-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

3-Benzoyl-2-[(3*S*)-3-(dimethylamino)pyrrolidin-1-yl]-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

2-(3-Aminoazetidin-1-yl)-3-benzoyl-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

2-(4-Aminopiperidin-1-yl)-3-benzoyl-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

3-Benzoyl-2-[3-(dimethylamino)azetidin-1-yl]-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

2-[(Azetidin-3-ylmethyl)amino]-3-benzoyl-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

3-Benzoyl-2-[(1-methylazetidin-3-yl)methyl]amino}-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

3-Benzoyl-2-(morpholin-4-yl)-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

3-Benzoyl-2-[3-(dimethylamino)-2,2-dimethylpropyl]amino}-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

N-[3-(4-Fluoro-3-methylbenzoyl)-6-oxo-7-phenyl-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]-1-methylpiperidine-4-carboxamide;

2-(Azetidin-3-ylamino)-3-(4-fluoro-3-methylbenzoyl)-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

3-(4-Fluoro-3-methylbenzoyl)-2-[(1-methylazetidin-3-yl)amino]-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

3-(4-Fluoro-3-methylbenzoyl)-7-phenyl-2-(piperidin-4-ylamino)thieno[2,3-*b*]pyridin-6(7*H*)-one;

3-(4-Fluoro-3-methylbenzoyl)-2-[(1-methylpiperidin-4-yl)amino]-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

3-(4-Fluoro-3-methylbenzoyl)-7-phenyl-2-[(3R)-pyrrolidin-3-ylamino]thieno[2,3-b]pyridin-6(7H)-one;

3-(4-Fluoro-3-methylbenzoyl)-2-{[(3R)-1-methylpyrrolidin-3-yl]amino}-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

3-(4-Fluoro-3-methylbenzoyl)-7-phenyl-2-[(3S)-pyrrolidin-3-ylamino]thieno[2,3-b]pyridin-6(7H)-one;

3-(4-Fluoro-3-methylbenzoyl)-2-{[(3S)-1-methylpyrrolidin-3-yl]amino}-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

3-(3-Methylbenzoyl)-7-phenyl-2-(piperidin-4-ylamino)thieno[2,3-b]pyridin-6(7H)-one;

3-(3-Methylbenzoyl)-2-[(1-methylpiperidin-4-yl)amino]-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

2-(Azetidin-3-ylamino)-3-(3-methylbenzoyl)-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

2-[(1-Methylazetidin-3-yl)amino]-3-(3-methylbenzoyl)-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

3-Benzoyl-7-phenyl-2-[(3R)-piperidin-3-ylamino]thieno[2,3-b]pyridin-6(7H)-one;

3-Benzoyl-2-{[(3R)-1-methylpiperidin-3-yl]amino}-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

3-Benzoyl-7-phenyl-2-[(3S)-piperidin-3-ylamino]thieno[2,3-b]pyridin-6(7H)-one;

3-Benzoyl-2-{[(3S)-1-methylpiperidin-3-yl]amino}-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

3-Benzoyl-2-[(1-ethylazetidin-3-yl)amino]-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

3-Benzoyl-2-[(1-isopropylazetidin-3-yl)amino]-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

3-Benzoyl-2-[(1-ethylpiperidin-4-yl)amino]-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

3-Benzoyl-2-[(1-isopropylpiperidin-4-yl)amino]-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

3-Benzoyl-2-{[(3S)-1-isopropylpyrrolidin-3-yl]amino}-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

2-[(trans-4-Aminocyclohexyl)amino]-3-benzoyl-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

2-[(1-Ethylpiperidin-4-yl)amino]-3-(3-methylbenzoyl)-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

2-[(1-Isopropylpiperidin-4-yl)amino]-3-(3-methylbenzoyl)-7-phenylthieno[2,3-b]pyridin-6(7H)-one;

3-(3-Methylbenzoyl)-7-phenyl-2-[(3*S*)-pyrrolidin-3-ylamino]thieno[2,3-*b*]pyridin-6(7*H*)-one;

3-(3-Methylbenzoyl)-2-{[(3*S*)-1-methylpyrrolidin-3-yl]amino}-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

2-[(1-Ethylazetidin-3-yl)amino]-3-(4-fluoro-3-methylbenzoyl)-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

3-(4-Fluoro-3-methylbenzoyl)-2-[(1-isopropylazetidin-3-yl)amino]-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

2-[(1-Ethylpiperidin-4-yl)amino]-3-(4-fluoro-3-methylbenzoyl)-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

3-(4-Fluoro-3-methylbenzoyl)-2-[(1-isopropylpiperidin-4-yl)amino]-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

2-(Azetidin-3-ylamino)-3-benzoyl-7-(cyclopropylmethyl)thieno[2,3-*b*]pyridin-6(7*H*)-one;  
3-Benzoyl-7-(cyclopropylmethyl)-2-[(1-methylazetidin-3-yl)amino]thieno[2,3-*b*]pyridin-6(7*H*)-one;

2-(Azetidin-3-ylamino)-7-(cyclopropylmethyl)-3-(4-fluoro-3-methylbenzoyl)thieno[2,3-*b*]pyridin-6(7*H*)-one;

7-(Cyclopropylmethyl)-3-(4-fluoro-3-methylbenzoyl)-2-[(1-methylazetidin-3-yl)amino]thieno[2,3-*b*]pyridin-6(7*H*)-one;

3-(3-Methoxybenzoyl)-2-[(1-methylpiperidin-4-yl)amino]-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

3-(3-Chloro-4-fluorobenzoyl)-2-[(1-methylpiperidin-4-yl)amino]-7-phenylthieno[2,3-*b*]pyridin-6(7*H*)-one;

2-Amino-3-benzoyl-7-(2,6-difluorophenyl)thieno[2,3-*b*]pyridin-6(7*H*)-one;

2-(Azetidin-3-ylamino)-3-benzoyl-7-(2,6-difluorophenyl)thieno[2,3-*b*]pyridin-6(7*H*)-one;  
3-Benzoyl-7-(2,6-difluorophenyl)-2-[(1-methylazetidin-3-yl)amino]thieno[2,3-*b*]pyridin-6(7*H*)-one;

2-Amino-7-(2,6-difluorophenyl)-3-(4-fluoro-3-methylbenzoyl)thieno[2,3-*b*]pyridin-6(7*H*)-one;

*N*-[7-(2,6-Difluorophenyl)-3-(4-fluoro-3-methylbenzoyl)-6-oxo-6,7-dihydrothieno[2,3-*b*]pyridin-2-yl]-1-methylpiperidine-4-carboxamide;

7-(2,6-Difluorophenyl)-3-(4-fluoro-3-methylbenzoyl)-2-[(1-methylpiperidin-4-

yl)amino]thieno[2,3-*b*]pyridin-6(7*H*)-one;

2-(Azetidin-3-ylamino)-3-benzoyl-7-(4-methylphenyl)thieno[2,3-*b*]pyridin-6(7*H*)-one;

3-Benzoyl-2-[(1-methylazetidin-3-yl)amino]-7-(4-methylphenyl)thieno[2,3-*b*]pyridin-6(7*H*)-one;

2-Amino-3-(4-fluoro-3-methylbenzoyl)-7-(4-methylphenyl)thieno[2,3-*b*]pyridin-6(7*H*)-one;

2-(Azetidin-3-ylamino)-3-(4-fluoro-3-methylbenzoyl)-7-(4-methylphenyl)thieno[2,3-*b*]pyridin-6(7*H*)-one;

3-(4-Fluoro-3-methylbenzoyl)-2-[(1-methylazetidin-3-yl)amino]-7-(4-methylphenyl)thieno[2,3-*b*]pyridin-6(7*H*)-one;

2-Amino-3-(4-fluoro-3-methylbenzoyl)-7-(4-fluorophenyl)thieno[2,3-*b*]pyridin-6(7*H*)-one;

2-Amino-3-benzoyl-7-(4-fluorophenyl)thieno[2,3-*b*]pyridin-6(7*H*)-one;

3-Benzoyl-7-(4-fluorophenyl)-2-[(1-methylpiperidin-4-yl)amino]thieno[2,3-*b*]pyridin-6(7*H*)-one;

2-(Azetidin-3-ylamino)-7-(2,6-difluorophenyl)-3-(4-fluoro-3-methylbenzoyl)thieno[2,3-*b*]pyridin-6(7*H*)-one; or

3-(4-Fluoro-3-methylbenzoyl)-7-(4-fluorophenyl)-2-[(1-methylpiperidin-4-yl)amino]thieno[2,3-*b*]pyridin-6(7*H*)-one.

9. (currently amended) A pharmaceutical composition comprising a compound of ~~formula (I) as defined in~~ as claimed in claim 1, or a pharmaceutically acceptable salt or solvate thereof, in association with a pharmaceutically acceptable carrier.

10. (canceled)

11. (currently amended) A method for the treatment ~~and/or~~ or prevention of a disorder for which an inhibitor of p38 MAP kinase is indicated, which comprises administering to a patient in need of such treatment an effective amount of a compound of ~~formula (I) as defined in~~ in claim 1, or a pharmaceutically acceptable salt or solvate thereof.

12. (new) A method of claim 11 wherein the disorder is an autoimmune disease, inflammatory disease, destructive bone disorder, proliferative disorder, neurodegenerative disorder, viral disease, allergy, infectious disease, heart attack, angiogenic disorder, reperfusion/ischemia in stroke, vascular hyperplasia, organ hypoxia, cardiac hypertrophy, thrombin-induced platelet aggregation, a condition associated with prostaglandin endoperoxidase synthetase-2 (COX-2), or a disease or disorder associated with TNF, IL-1, IL-6, or IL-8 production.

13. (new) A method of claim 12 wherein the autoimmune disease is rheumatoid arthritis, inflammatory bowel disease, ulcerative colitis, Crohn's disease, multiple sclerosis, diabetes, glomerulonephritis, systemic lupus erythematosus, scleroderma, chronic thyroiditis, Grave's disease, hemolytic anemia, autoimmune gastritis, autoimmune neutropenia, thrombocytopenia, chronic active hepatitis, myasthenia gravis, atopic dermatitis, graft vs host disease, or psoriasis.

14. (new) A method of claim 12 wherein the inflammatory disease is asthma, an allergy, respiratory distress syndrome, or acute or chronic pancreatitis.

15. (new) A method of claim 12 wherein the destructive bone disorder is osteoporosis, osteoarthritis, or multiple myeloma-related bone disorder.

16. (new) A method of claim 12 wherein the proliferative disorder is acute or chronic myelogenous leukemia, Kaposi's sarcoma, metastatic melanoma, or multiple myeloma.

17. (new) A method of claim 12 wherein the neurodegenerative disorder is Parkinson's disease, Alzheimer's disease, cerebral ischemia, or a neurodegenerative disease caused by traumatic injury.

18. (new) A method of claim 12 wherein the viral disease is hepatitis A infection, hepatitis B infection, hepatitis C infection, HIV infection, or CMV retinitis.



19. (new) A method of claim 12 wherein the infectious disease is septic shock, sepsis, or Shigellosis.
20. (new) A method of claim 12 wherein the condition associated with prostaglandin endoperoxidase synthetase-2 (COX-2) is edema, analgesia, neuromuscular pain, headache, dental pain, arthritis pain, or pain caused by cancer.
21. (new) A method of claim 12 wherein the disease or disorder associated with the production of TNF is rheumatoid arthritis, rheumatoid spondylitis, osteoarthritis, gouty arthritis, sepsis, septic shock syndrome, adult respiratory distress syndrome, cerebral malaria, chronic pulmonary inflammatory disease, silicosis, pulmonary sarcoidosis, bone resorption disease, reperfusion injury, graft vs. host reaction, allograft rejections, fever and myalgias due to infection, cachexia secondary to infection, AIDS, ARC or malignancy, keloid formation, scar tissue formation, Crohn's disease, ulcerative colitis, pyresis, HIV, CMV, influenza, herpes.
22. (new) A method of claim 12 wherein the disease or disorder associated with the production of TNF is infection by a veterinary virus selected from equine infectious anemia virus, caprine arthritis virus, visna virus, maedi virus, feline immunodeficiency virus, bovine immunodeficiency virus, and canine immunodeficiency virus.
23. (new) A method of claim 12 wherein the disease or disorder associated with the production of IL-1 is rheumatoid arthritis, osteoarthritis, psoriatic arthritis, traumatic arthritis, rubella arthritis, inflammatory bowel disease, stroke, endotoxemia, toxic shock syndrome, inflammatory reaction induced by endotoxin, diabetes, pancreatic  $\beta$ -cell disease, Alzheimer's disease, tuberculosis, atherosclerosis, muscle degeneration, or cachexia.
24. (new) A method of claim 12 wherein the disease or disorder associated with the production of IL-8 is psoriasis; inflammatory bowel disease; asthma; cardiac, brain, or renal reperfusion injury; adult respiratory distress syndrome; thrombosis; or glomerulonephritis.

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**PATENT**

**Application No.:** 10/576,731

**Preliminary Amendment - First Action Not Yet Received**

25. (new) A method of claim 12 wherein the disease or disorder associated with the production of IL-6 or IL-8 is an infection caused by human rhinovirus (HRV), an enterovirus, a coronavirus, an influenza virus, a parainfluenza virus, a respiratory syncytial virus, or an adenovirus.